

Name: _____

Date: _____

A2 CC: Equations With Rational Exponents

1) Solve for x: $x^{\frac{2}{3}} = 25$

2) Solve for x: $2a^{-3} - 1 = 15$

Please use a separate sheet of paper to answer the following questions.

In 3–17 solve each equation and check.

3. $x^{\frac{1}{3}} = 4$

4. $a^{\frac{1}{5}} = 2$

5. $x^{\frac{2}{3}} = 9$

6. $b^{\frac{3}{2}} = 8$

7. $x^{-2} = 9$

8. $b^{-5} = \frac{1}{32}$

9. $2y^{-1} = 12$

10. $9a^{-\frac{3}{4}} = \frac{1}{3}$

11. $5x^{\frac{3}{4}} = 40$

12. $5x^{\frac{1}{2}} + 7 = 22$

13. $14 - 4b^{\frac{1}{3}} = 2$

14. $(2x)^{\frac{1}{2}} + 3 = 15$